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AGRICULTURAL LIBRARIES INFORMATION NOTES

AQUACULTURE INFORMATION: A CHALLENGE FOR THE EIGHTIES

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USDA Photo

*Running a production forecast model
developed and tested in hatcheries.*

The National Aquaculture Act of 1980 (P.L. 96-362), signed into law September 26, 1980, offers the information community a unique opportunity to lend its resources, talents, and technology to the development in this decade of a viable aquaculture industry in the United States. Declaring aquaculture to be the national interest, the 96th Congress enacted legislation to encourage its development.

Aquaculture -- the controlled cultivation and harvest of aquatic animals and plants -- holds the potential for providing tangible and significant benefits to diverse segments of the U.S. economy. Aquaculture can produce supplemental income for the family farm in the off-season, provide jobs and increased revenue through commercial op-

erations, and on a larger scale, contribute to the reduction of the U.S. balance of payments deficit and the development of healthy export markets. For consumers it would mean an added source of low-fat, high quality protein in the diet.

The first of two reports issued by the National Academy of Sciences in the late 1970's addresses constraints and opportunities for the development of aquaculture in the U.S. and identifies a number of areas needing support, direction, or attention.¹ The second report makes specific recommendations regarding the role of the U.S. Department of Agriculture in aquaculture.² On the matter of administrative organization, the recommendation is made for creating "...a central data resource... to collect, collate, and disseminate data and provide users with one comprehensive contact (including library access) for a two-way flow of information" on aquaculture. Noting that approximately twenty federal agencies are involved in aquaculture to some degree, the report includes the recommendation for the continuation and strengthening of coordination of federal aquaculture activities. Another recommendation is that "a national aquaculture information system be established that would make available programs, policies, and research activities to government and in the private sector."

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(AQUACULTURE, Continued from p. 1)

Similarity in the wording of the latter report and current legislation is apparent. The National Aquaculture Act of 1980 calls for the development of a National Aquaculture Development Plan and additionally requires that "an information service for the collection, analysis and dissemination of scientific, technical, legal and economic information relating to aquaculture" be established and maintained. Authorization for appropriations for fiscal years '81, '82, and '83 was made to the Departments of Agriculture, Commerce, and Interior to carry out provisions of the Act. Responsibility at the national level for the coordination of federal programs and activities regarding aquaculture has been assigned to the interagency aquaculture coordinating group operating as the Joint Subcommittee on Aquaculture of the Federal Coordinating Council for Science, Engineering, and Technology. The purpose of this group is to increase the overall effectiveness and productivity of federal aquaculture research, transfer and assistance programs through a variety of means including the collection, compilation, and dissemination of information on aquaculture. The coordinating group is required to report regularly to the Federal Council on recommendations concerning federal aquaculture policies and programs.

Preparation of a strategy for participating in a national aquaculture effort by the information community will be challenging, and as a national plan emerges, information managers in the public and private sectors will need to define the related roles of the libraries, information services, or programs they direct. Current aquaculture effort in Technical Information Systems (TIS) is aimed at providing support to the Department as its role in national



USDA Photo
Trout producing facility at Crystal Springs, IA (Clear Springs Trout Company)

aquaculture development emerges. Concurrently, this support is related to the provisions of the Act regarding the establishment and maintenance of an aquaculture information service. While an operating plan and proposal for the location of this service need to be developed jointly through interagency efforts and tied to a National Aquaculture Plan, TIS participation is underway.

In progress is the preparation of a published directory of ongoing aquaculture research projects conducted by the U.S. Department of Agriculture and State Land-Grant institutions. These

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projects are currently tagged in the TIS Current Research Information Systems (CRIS) data base and are being made available for direct computer online access by researchers, aquaculturists, and individuals in the public and private sectors. A coding scheme specifically for aquaculture projects in the data base has been designed to achieve more effective computer retrieval. A comprehensive bibliography of published literature on aquaculture which is maintained in the TIS AGRICOLA data base is also being prepared as a companion to the research directory.

TIS recently compiled and is maintaining a directory of key contacts in aquaculture primarily within the States

and the State University Land-Grant system. It lists over 700 individuals who conduct or direct aquaculture programs or activities or who manage sizeable information resources and services. The directory will be expanded to include several thousand fish growers, breeders, and processors in the private sector and will be used as a tool for rapid delivery of information to aquaculturists throughout the country.

Identified as one area for special tracking, State Extension accomplishments in aquaculture at the farm level are being documented in a TIS computerized online system soon to be made

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USDA Photo
Pond inventory to validate the growth forecast model. Washinton Dept. of Game Hatchery, Spokane, WA



USDA Photo
Packaging the commercial product

(AQUACULTURE, Continued from p. 3)

available to the extension community. To supplement information about current activities, State Extension ("how to") publications on aquaculture are being entered in the TIS AGRICOLA data base for direct online access.

Central to the TIS effort is the planned expansion of the TIS collection of aquaculture journals, books, and reference materials, and the use of appropriate classification/tracking systems for the identification and retrieval of aquaculture information in its data bases.


Also in progress is the modification of computer software to allow for rapid preparation of published bibliographies and research directories from aquaculture information residing in AGRICOLA and CRIS. TIS continues to provide funds toward the support of the ongoing interagency aquaculture translations program. A total of 129 translations of articles on aquaculture have been prepared. A partial listing was issued as Supplement 2 to *Agricultural Libraries Information Notes*, 5(7/8) July/August 1979. Later plans include the preparation of an annotated catalog of USDA and State aquaculture programs and activities and its maintenance in a computer system for public access.

In the Fall of 1979 the U.S. Department of Agriculture's Aquaculture Work Group, in a working paper titled, "Aquaculture. A Program for the Eighties," described objectives for meeting pressing aquaculture industry needs and identified the role of USDA in supporting the development of aquaculture in the United States.


In an effort to obtain comment and recommendations for use in updating the plan, copies of the report and the 1980 legislation were sent in February 1981 to key contacts in the aquaculture community. Addressees included directors of the State Land-Grant and affiliated libraries. It appears timely for the

agricultural information community to alert itself to opportunities for participation in this national effort.

1. *Aquaculture in the United States. Constraints and Opportunities.* Committee on Aquaculture, Board on Agriculture and Renewable Resources, Commission on Natural Resources, National Research Council, National Academy of Sciences. Washington, D.C. 1978.

2. *The Role of the U.S. Department of Agriculture in Aquaculture.* Panel on Aquaculture, Board on Agriculture and Renewable Resources, Commission on Natural Resources Council, National Academy of Sciences. Washington, D.C. 1979. 

ADVANCED LEVEL AGRICOLA WORKSHOPS

In addition to its basic level data base workshop, TIS is also planning to offer two advanced level AGRICOLA seminars. These will be intended for professional librarians or technical information specialists with either prior online training or substantial prior online experience. The objectives of the advanced classes are: to give participants an advanced level understanding of the use, functions, and content of the AGRICOLA data base; its design structure and principal features; its strengths and weaknesses in relation to other agricultural data bases; its scope of subject coverage, unique features and problems. Participants should come away from the seminar with a clear understanding of how to use AGRICOLA effectively, when to choose it over another data base, and how to formulate and execute a complicated search on a complex subject and do so in an efficient manner. The first of the workshops will be in the Midwest (probably at Michigan State University) in early summer; the second at the University of California, Riverside in September. Registrants should call David Hoyt at TIS: phone (301) 344-3937. 

1890 LAND-GRANT LIBRARIES ASSOCIATION

The 1890 Land-Grant Library Directors' Association and Tuskegee Institute was formerly organized in Huntsville, Alabama at the Agricultural Information Conference, November 1978. Officers elected were Barbara Williams (S.C. State), President; Nicholas Gaymon (Florida A & M), Secretary and Anne Kling (Tuskegee Institute), Treasurer. The first official meeting was held in Atlanta, Georgia, February 13, 1979 at which time the purposes, by-laws and other organizational requirements were implemented. All presidents and 1890 research directors were informed of the organization and support was solicited from them.

The primary purposes of the association are: to promote cooperation between the 1890 land-grant college and university libraries; to assist the 1890 research directors and staff of the 1890 research programs, and to maintain high standards of operation for the 1890 land-grant college and university libraries. The first plan of action was the coordination of information services in the support of agriculture and related research at the 1890 land-grant institutions.

The organization has accomplished the following tasks:

- (1) Compiled agricultural and agricultural related serials in the libraries of the 1890 land-grant colleges and universities.
- (2) Formulated a draft proposal to establish an information network for the 1890 land-grant college libraries and Tuskegee Institute.
- (3) Published and distributed the first volume of the Association's Newsletter *Libline*. Vol. 1, no. 1, August 1980- q. Limited distribution to members of the 1890 Library Directors Association.



*Barbara Williams Jenkins
President of the 1890 Land-
Grant Libraries Association*

- (4) Maintained contact for program development with the National Agricultural Library/Technical Information Systems/USDA.
- (5) Maintained contact with the 1890 Land-Grant Research Directors and Coordinator's Office in Washington, D.C.
- (6) Established and maintained contact with the University Affairs Division, Office of Civil Rights/USDA. Representatives have attended meetings.
- (7) Established contact for inclusion in the proposed Farm Bill for financial support to provide agricultural information via computer technology and other related sources. Representatives of the group testified before Congress in March on funding for the 1890 land-grant libraries.

The following persons have attended our meetings as resource persons:

(1890, Continued on p. 6')

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Wallace Olsen, Chief
Library Operations
National Agricultural Library
Beltsville, MD

Cornelius McKissick, Liaison Contact
National Agricultural Library
Beltsville, MD

Vivian Moore
Office of University Affairs, USDA
Washington, D.C.

Doris Thompson
Deputy Director
Office of University Affairs, USDA
Washington, D.C.

McKinlay Mayes, Coordinator
Science and Education Administration
Cooperative Research/USDA
Washington, D.C.

The contact and information given to us by these resource persons have been most valuable. Two 1890 land-grant college libraries have been awarded grants for bibliographic retrieval services from National Agricultural Library/Technical Information Systems of the USDA. Close liaison has been established with the National Agricultural Library and Mr. Cornelius McKissick serves as the Liaison between that library and the 1890 land-grant libraries. Mr. Wallace Olsen of NAL served as our former Liaison contact.

The 1890 Land-Grant Library and Tuskegee Institute Directors are:

Birdie Weir, Director
Joseph F. Drake Library
Alabama Agricultural & Mechanical University
Normal, AL

Edward J. Fontenette, Director
John Brown Watson Memorial Library
University of Arkansas-Pine Bluff
Pine Bluff, AK

Daniel Coons, Director
William C. Jason Library
Delaware State College
Dover, DE

Nicholas E. Gaymon, Director
Samuel H. Coleman Memorial Library
Florida Agricultural & Mechanical University - Box 78-A
Tallahassee, FL

Dorothy Haith, Director
Henry Alexander Hunt Memorial Lib.
Fort Valley State College
Fort Valley, GA

Donald W. Lyons, Director
Blazer Library
Kentucky State University
Frankfort, KY

Georgia W. Brown, Director
Southern University Library
Southern Branch P.O.
Baton Rouge, LA

Jessie C. Smith, Director
Frederick Douglas Library
University of Maryland -
Eastern Shore
Princess Ann, MD

Epsy Yearby Hendricks, Director
Alcorn State University
Lorman, MI

Freddye G. Ashford, Director
Inman E. Page Library
Lincoln University, Box 29
Jefferson City, MO

Myrtle C. Bennett
Director of Library Services
N.C. Agricultural & Technical State University
Greensboro, NC

Barbara Williams Jenkins
Director, Miller F. Whitaker Library
South Carolina State College
College Avenue
Orangeburg, SC

(1890, Continued on p.12)

VIDEOTEX IN AGRICULTURE

Both farmers and the European Economic Community's 30,000 agricultural advisors and extension workers constantly need information on market prices, new products, disease warnings, weather, feeding standards, new regulations etc.

The question is: how can they gain rapid and systematic access to information affecting their sometimes remote region?



Videotex - childishly simple to operate.

A study has now been started to assess whether videotex systems can provide a solution.

Its broad aims are to establish:

- whether there is a demand for videotex-based services, its scale, price elasticity and expectancy.
- the value of the service to the extension workers.
- the cost of such a service, and
- the main technical issues which will need to be overcome.

The contractor, AREGON, will in particular identify the kind of information which farmers need, in order of priority, and whether this can be made available best through videotex. Equally important is the attitude of farmers

and agricultural advisory services to videotex and the different requirements of different regions in the Member States.

-DIANE NEWS No. 21
Nov./Dec. 1980

AGRICULTURE NEWS SERVICE ESTABLISHED

A new agricultural news service was inaugurated in January.

It is called "Agline," an offshoot of the Laboratory for Information Science and Agriculture, a department in the College of Agricultural Sciences at Colorado State University.

The new service is designed to inform the public of agriculture's growing impact.

"Agline" sends monthly packages of about eight articles to news wire services, individual newspapers and farm periodicals, which have the option of running the stories (and paying for them) or not.

Initially, the funding is from private sources, but ultimately the service intends to be self-supporting.

"Agline" is looking for stringers, both writers and photographers, in all parts of the nation.

For more information, contact Mary Roberts or Rosemary Menniger, Agline, 301 Aylesworth, Fort Collins, CO 80523. Telephone is (303) 491-5863.

-INSIDE INFORMATION (USDA) 3 (11)
2-27-81.

TECHNOLOGY INDICATORS

Two patent surveys published recently by the Commission of the European Communities provide valuable indicators of trends in research and development in the industrialised world.

The surveys aim at providing objective information for private industry and the public sector in making decisions regarding technology.

They trace the evolution of over 6 million unique patent applications filed during 1965-1977 in the EEC, USA and Japan.

The comprehensive surveys include a compilation of existing statistical data on patent applications provided by the former Institut International des Brevets, now European Patent Office in Den Haag, Netherlands.

In the first part of each report, the data is broken down into domestic patent applications (see Table), applications by non-residents, and country of origin.

One table reveals, for example, that the foreign contribution of patents is extremely high in smaller EEC countries, but also in France and Italy, and is considerable in the United Kingdom. Germany ranks highest in "home made" patent applications, maintaining a steady fifty-fifty proportion with non-resident applications.

Parts II and III of the surveys present a statistical review of patent applications by subject, following the International Patent Classification scheme.

This statistical presentation is repeated in Part IV of each survey making use of the NACE (general nomenclature of economic activities in the EEC) classification system, so that an industry-oriented technology pattern is obtained.

EUR 6574 - Evolution of patent filing activities in the EEC. Bfr 1500.

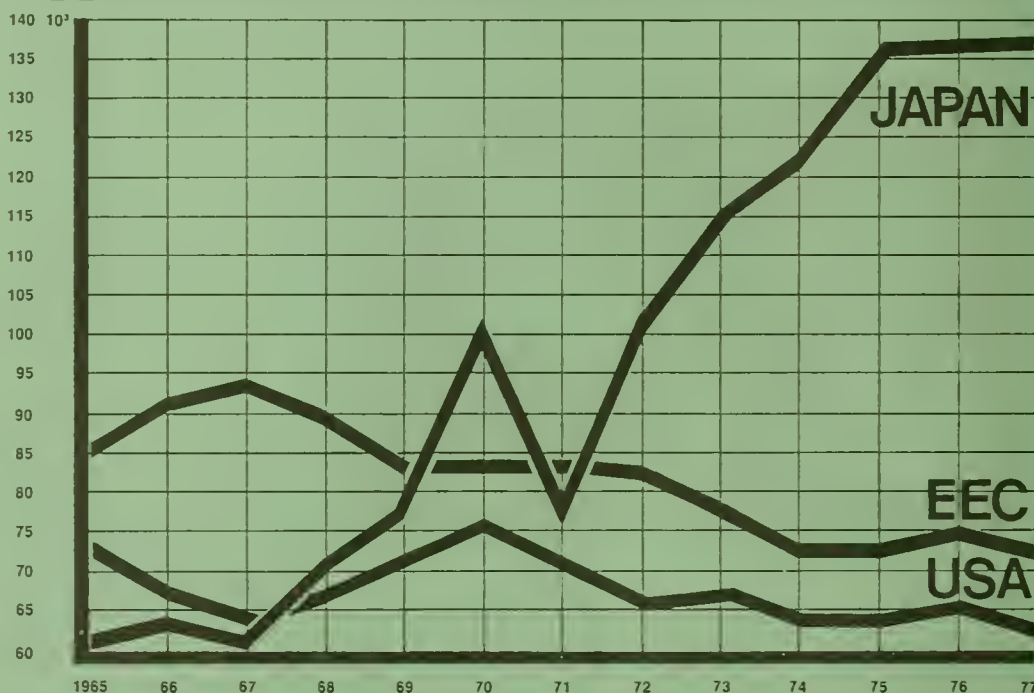
EUR 6575 - Evolution of patent filing activities in the USA. H. Grevink and H. Kronz, Luxembourg. Office for Official Publications of the European Communities. BP. 1003 Luxembourg 1980 Bfr. 5600.

The table shows that domestic patent applications reached a peak in the nine EEC member countries and USA in 1967 and 1970 respectively, then dropped away sharply. Domestic

filings in Japan show a vigorous increase and from 1975 onwards they are nearly equal to those of the EEC and USA together.

How to search through this rich source of scientific, technical and technological information? Data bases such as INPADOC and PATENT REGISTER, available over Euronet DIANE, list several million patents.

Applications filed by nationals and/or residents



DIANE NEWS No. 21
Nov./Dec. 1980

NATIONAL AGRICULTURAL LIBRARY OF BRAZIL

Ana Flavia P. Medeiros da Fonseca, head of the Operations and Services Department of the National Agricultural Library of Brazil (BINAGRI), has been elected president of the Comissao Brasileira de Documentacao Agricola (CBDA), a nonprofit subsidiary of the Federacao Brasileira de Associacoes de Bibliotecarios (FEBAB). The Commission objectives are to support librarianship and agricultural information professionals, promote progress of these professionals through courses, congresses, seminars and lectures, as well as in supporting the development of informations systems in the agricultural area. BINAGRI will put into operation next January a new service, Servico Automatizado de Informacoes Bibliograficas Agricolas.

(BRAZIL, Continued on p. 9)

AGRICULTURAL TRANSLATIONS



Technical Information Systems reviews titles before translations are made in order to avoid duplication within USDA. We also receive copies on deposit often far in advance of their listings in the standard bibliographic tools. This column is an alert to selected new receipts at TIS. These items are available to USDA personnel upon presentation of a loan request (AD-245) with the identification: TRANS. No. _____ along with the citation. Non-USDA persons may request photo-duplication at the rate of \$2 for each 10 pages or fraction thereof per citation. TRANS. No. _____ MUST be on the request. Both types of requests should be sent to:

Lending Division, Technical Information Systems
National Agricultural Library Building
U.S. Department of Agriculture
Beltsville, Maryland 20705

The Technical Translation Number will also be cited for those translations prepared for the U.S. Department of Agriculture and the National Science Foundation under the P.L. 480 program. Copies of these translations may also be ordered from the National Translation Center, John Crerar Library, 35 West 33rd Street, Chicago, IL 60616.

FROLOV, M. V. Role of Electrostatic Forces in the Mechanism of Paper Strength: Study of the Effects of Electric Double Layer Disruption. Translated from Russian: *Bumazhanaia Promshlennost*, 5: 5-7, 1979. Trans. No. 27004.

OSIDZE, N. G. A New Variety of Fowl Plague Virus. Translated from Russian: *Veterinariya*, (9): 29-31, 1979. Trans. No. 27002.

POKROVSKAYA, V. A. Basic Products and Their Calculation in Romanov Sheep Breeding. Translated from Russian: *Otsevodstvo*, 2: 12-14, 1978. Trans. No. 26907. TT 78-53021/3.

TOZHEVSKI, B. The Effect of Alkaline Cooking Conditions on Resinous Substances of Pine Wood. Translated from Russian: *Bumazhnaia Promyshlennost*, 1: 13-14, 1980. Trans. No. 26709.

TYURINA, ZH. P. & KLIMENKO, V. G. Study of Proteins and Their Amino-Acid Composition in Sunflower Seed and Oil Cake. Translated from Russian: *Akademiya Nauk Moldavskoy SSR. Investiya. Seriya Biologicheskikh i Khimicheskikh Nauk*, (1): 21-28, 1978. Trans. No. 27010.

(BRAZIL, Continued from p. 8)

The new service foresees retrospective retrieval for bibliographic references, through users profiles, built by means of descriptors or words extracted from the document. The information to be retrieved belongs to the national and international data bases, including AGRIS - International System for Agricultural Sciences and Technology. The National Agricultural Library, central body of the National System for Agricultural Information and Documentation (SNIDA), AGRIS' National Center in Brazil, operates an SDI Service, called BIP/AGRI, based on the AGRIS tapes. This service has reached approximately 3,000 users in the agricultural sector with great success. Beginning in 1981 BIP/AGRI will charge an utilization annuity for being totally operational. This service provides highly relevant bibliographic information concerning subjects of interest to its users on a monthly basis. This software called SIRI, makes available information through subject, object and geographical codes; through free terminology and users access language. Profiles can be established for information retrieval in all the fields of AGRIS Input Sheet.

WORLD FOOD DAY



16 OCTOBER 1981

The first WORLD FOOD DAY will be October 16, 1981 the anniversary of the founding of the Food and Agriculture Organization of the United Nations. The 147 member nations of FAO established WORLD FOOD DAY because they felt the need to alert public opinion to the gravity of the world food situation now and the dangers in the years to come. WORLD FOOD DAY should have a special importance to people living in Canada and the United States. These two countries alone hold more than 40% of world grain reserves and account for about two-thirds of world grain exports and two-thirds of all food aid. The abundance of North American agriculture is the world's last line of defense against famine.

WORLD FOOD DAY provides an opportunity to restudy North America's role in the global food picture.

As 1981 began, the world food situation was deteriorating. Global grain reserves had fallen for the second straight year. Very large areas of Africa remained parched by drought. Hunger problems of refugees continued in several countries. While we can't accurately predict this year's weather, there is real danger that the first WORLD FOOD DAY on October 16 will come at a time of deepening crisis. Yet even if harvests this year are bountiful, huge numbers of people will still go hungry. WORLD FOOD DAY observances can be an important way not only to show humanitarian concern but to consider new steps North Americans can take in the war against hunger.

For more information on WORLD FOOD DAY plans and activities please write:

In Canada—

World Food Day Coordinator
Sir John Carling Bldg., Room 949
930 Carling Avenue
Ottawa, Ontario K1A 0C5

In the U.S.

World Food Day
FAO Liaison Office for North America
1776 F Street, Northwest
Washington, D.C. 20437



Agricultural Energy; Selected Papers and Abstracts from the 1980 National Energy Symposium, September 29-October 1, 1980. St. Joseph, MO, American Society of Agricultural Engineers, 1981. 3 vols. \$39.50 to ASAE members; \$49.50 non-members. Order from ASAE, 2950 Niles Road, P.O. Box 410, St. Joseph, MO 49085.

Firewood Crops: Shrub and Tree Species for Energy Production. Panel on Firewood Crops, Advisory Committee on Technology Innovation, Board on Science and Technology for International Development; Commission on International Relations. Washington D.C. National Research Council (Board on Science and Technology for International Development), 1980. 248 p. Free; supply limited. Available from board, 2101 Constitution Ave., N.W., Washington, D.C. 20418.

Postharvest Food Losses in Sri Lanka. Report of a Workshop Held 11-16 February 1980. National Science Council of Sri Lanka, 1980; 70 p. Free. Available from Board on Science and Technology for International Development, 2101 Constitution Ave., N.W., Washington, D.C. 20418.


Principles of Toxicological Interactions Associated with Multiple Chemical Exposures. Panel on Evaluation of Hazards Associated with Maritime Personnel Exposed to Multiple Cargo Vapors. National Academy Press, 1980; 204 p. Free. Supply limited. Available from Board on Toxicology and Environmental Health Hazards, 2101 Constitution Ave., N.W., Washington, D.C. 20418.

Reflections of America. Commemorating the Statistical Abstract Centennial. Washington, D.C., U.S. Department of Commerce, Bureau of the Census, 1981. 212 p. \$6.50. Order from Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Paperback. S/N 003-024-02921-9.

Risk Assessment/Safety Evaluation of Food Chemicals. Subcommittee of Food Toxicology, Committee on Food Protection, Food and Nutrition Board; Division of Biological Sciences, Assembly of Life Sciences, National Research Council. National Academy Press, 1980; 45 p. \$1.65. Order from press, 2101 Constitution Ave., Washington, D.C. 20418.

Soil, Water, Air Sciences Directory. (Washington, D.C.). U.S. Dept. of Agriculture, Science and Education Directory, 1981. 49 p. Free. Order from Publications Requests and Distribution, SEA-Information Staff, Room 6007, South Building, U.S. Dept. of Agriculture, 14th and Independence Avenue, S.W., Washington, D.C. 20250.

Township Funding Opportunities--Federal Resources for Small Communities. Washington, D.C., National Association of Towns and Townships. 55 p. \$15 prepaid. Order from the Association, Department R, 1521 16th St., N.W., Washington, D.C. 20036.

Urban Pest Management. Committee on Urban Pest Management, Environmental Studies Board; Commission on Natural Resources, National Research Council. National Academy Press, 1980. 296 p. ISBN 0-309-03125-7; \$10.75. Order from press, 2101 Constitution Ave., N.W., Washington, D.C. 20418. 



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Continues United States. Industry and
Trade Administration. Office of
International Economic Research.
International Economic Indicators.

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Durham, NC. Biological Photographic
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Association. q. Vol. 51, 1980-
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Continues Bird-Banding.

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Engineering and Modern Packaging.

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Paris. Institut National de la
Recherche Agronomique. irr. Vol. 20,
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Continues Annales de Biologie Animale,
Biochimie, Biophysique.

(1890, Continued from p. 6)

Evelyn P. Fancher, Director
Brown-Daniel Library
Tennessee State University
Nashville, TN

Frank Francis, Jr., Director
W. R. Banks Library
Prairie View Agricultural &
Mechanical University
Prairie View, TX

Catherine V. Bland, Director
Johnston Memorial Library
Virginia State College
Petersburg, VA

Anne G. King, Director
Hollis Burke Frissell Library
Tuskegee Institute
Tuskegee, AL



Annotated Bibliography of the Screwworm, Cochliomyia hominivorax (Coquerel). J. Wendell Snow, A. J. Siebenaler, and F. G. Newell. New Orleans, Agricultural Research (Southern Region), SEA, USDA. 1981. 32 p. 621 citations. (Agricultural Review and Manuals, ARM-S-14). Order from Southeastern Fruit and Tree Nut Research Laboratory, AR, SEA, USDA, P.O. Box 87, Byron, GA. 31008. Free.

Bibliography of the Freshwater Algae of New Zealand, 1849-1980. Vivienne Cassie. Wellington, Dept. of Scientific and Industrial Research, Science Information Division. 470 citations. IN: *New Zealand Journal of Botany*, vol. 18, no. 3, 1980, p. 433-447. (NAL call no.: 450 N48).

Bibliography of Greenhouse and Plant Growth Facilities. David S. Ross. College Park, MD., Agricultural Engineering Dept., University of Maryland. 2d edition. March 1980. 16 p. Approx. 190 citations. (Cooperative Extension Service, Agricultural Engineering FACTS 125). Order from: Publisher, College Park, MD. 20742. Price unavailable.

A Bibliography on Ticks and Tick-Borne Diseases in the Countries of the Benelux (1567-1978). J. E. M. H. van Bronswijk. The Hague, published for the Royal Netherlands Veterinary Association by Martinus Nijhoff. Over 223 citations. IN: *The Veterinary Quarterly*, vol. 2, no. 4, 1980, p. 220-233. (NAL call no.: SF601.V46).

Publications on Energy for Farm and Home of the State Cooperative Extension Services and the Science and Education Administration. Washington, D.C., SEA Information Staff, SEA, USDA. February


1981. 146 p. Approx. 755 annotated titles. Order from: SEA Publications, Room 6009, South Building, USDA, Washington, D.C. 20250. Free.

The following bibliographies were published in 1980 as part of the series *Aktuelle Literaturinformationen aus dem Obstbau* of the Universitätsbibliothek der Technischen Universität Berlin. Order from Universitätsbibliothek der Technischen Universität Berlin, Abt. Publikationen, Strasse des 17. Juni 125, D-1000 Berlin 12 (Charlottenburg), Germany. (NAL call no. for series: Z5996.F8A4). Price unavailable.

Pflanzsysteme im Apfelanbau: Planting Systems in Apple Cultivation, 1973-1979. Annemarie Karnatz and Peter Simon. 33 p. Approx. 295 citations. (Series, no. 95)


Veröffentlichungen uder die Erdbeer: Publications on the Strawberry (1976-1979). Peter Simon. 44 p. 399 citations. (Series, no. 96).

Bibliographie des Internationalen Aprikosen-Schrifttums: Bibliography of the International Literature on Apricots (1976-1979). Peter Simon and Gudrun Weiland. 30 p. 270 citations. (Series, no. 98).

Blattdüngung im Obstbau: Foliar Nutrition in Orchard (1965-1979). Annemarie Karnatz and Peter Simon. 37 p. Approx. 325 citations. (Series, no. 99). 

NEW ARBOR-TOPICS

- No. 1: *Culinary Herbs*. 2 p.
- No. 2: *Fragrance Plants*. 2 p.
- No. 3: *Dye Plants*. 2 p.
- No. 4: *Old Roses*. 2 p.

Request from: Reference Branch
TIS/SEA/USDA
NAL Bldg., Room 302
Beltsville, MD 20705 

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BASIC LEVEL AGRICOLA, CRIS, CALS SEMINAR

If you have not already done so, there is still time to register for the May 11-15, 1981 AGRICOLA, CRIS, CALS basic level workshop. The workshop will be held at Western Illinois University, in Macomb, Illinois. The workshop will emphasize online access to the CRIS and AGRICOLA data bases, as well as the provision of CALS (current awareness literature) service. The seminar is designed for new or beginning searchers and will cover such basic topics as online systems access, Boolean logic, search strategy formulation, and efficient searching techniques in CRIS and AGRICOLA. There will be ample hands-on time for all participants involved. Persons wishing to register should call David Hoyt, Leader for Training and Education, TIS: phone (301) 344-3937. For persons arriving by airplane, local travel arrangements to Macomb can be made by calling Donald MacVean at Western Illinois: phone (309) 298-2411. If you cannot attend the May workshop, the next basic level class will be offered in August, the 24th to 26th, at the University of Tennessee. **Q8**



June 14-19: *American Society for Photobiology. 9th Annual Scientific Meeting.* Williamsburg, Va. Contact: Richard J. Burk, Jr., 4720 Montgomery Lane, Suite 506, Bethesda, MD 20014.

June 15-18: *Inter-American Meeting of Agricultural Librarians and Documentalists, 6th Meeting.* Santo Domingo, Dominican Republic. Contact: Dr. Ruben Nunez C., Presidente Comité Organizador, Departamento de Informaciones, Estadísticas y Computos, Secretaria de Estado de Agricultura, Centro de los Heroes, Santo Domingo, Republica Dominicana.

June 15-24: *XIV International Grassland Congress.* University of Kentucky, Lexington, Ky. Contact: John E. Baylor, Agricultural Science Center, University of Kentucky, Lexington, KY 40546.

June 18-22: *American Association of Nurseryman.* Cincinnati, Ohio. Contact: Robert F. Lederer, 230 Southern Building, Washington, D.C. 20005.

June 21-26: *International Symposium on Flavins and Flavoproteins. 7th.* Ann Arbor, Mich. Contact: Vincent Massey, Dept. of Biological Chemistry, University of Michigan, Ann Arbor, MI 48109.

June 19: *USDA Agency Field Libraries Meeting.* Atlanta, Ga. Contact: Leila Moran, Educational Resources Div., TIS/SEA/USDA, NAL Bldg., Beltsville, MD 20760. Telephone: (301) 344-3837.

July 13-17: *Conference on Food Microbiology.* Society for Applied Microbiology. Bristol, U.K. Contact: R.W.A. Park, Microbiology Dept. University of Reading, London Road, Reading, England RG1 5AQ.

July 26-30: *American Society of Animal Science.* North Carolina State University, Raleigh, N.C. Contact: David C. England, Oregon State University, Animal Science Department, Corvallis, OR 97330.

August 2-5: *Soil Conservation Society of America, 36th Annual Meeting.* Spokane, Washington, D.C. Contact: SCSA, 7515 Northeast Ankeny Road, Ankeny, Iowa 50021.

August 2-6: *American Phytopathological Society.* New Orleans, La. Contact: R. J. Tarleton, APS, 3340 Pilot Knob Rd., St. Paul, MN 55121.

August 11-13: *Cereals, A Renewable Resource: Theory and Practice. An International Symposium.* Copenhagen, Denmark. Contact: Mrs. Ruth Nelson, American Association of Cereal Chemists, 3340 Pilot Knob Road, St. Paul, MN 55121. (612) 454-7250.

August 16-21: *International Congress on Nutrition. XII.* San Diego, Calif. Contact: Administrative Secretariat, XII. Int'l. Congress on Nutrition, 1629 K St., N.W., Suite 706, Washington, D.C. 20006.

October 25-30: *American Society for Information Science, 44th Annual Meeting.* Washington, D.C. Contact: Carol Wasserman, ASIS '81 Public Relations Committee, 1010 16th Street, N.W., Washington, D.C. ☐☐

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NOTES provides a channel of communication to technical information specialists, librarians, extension workers, researchers, and scientists on agricultural information activities. It is published monthly by the U.S. Department of Agriculture, Science and Education Administration, Technical Information Systems, National Agricultural Library Building, Beltsville, MD 20705. Leila Moran, Editor. ☐☐

AQUACULTURE TRANSLATIONS LIST

The Joint Subcommittee on Aquaculture of the U.S. Government has sponsored translations of significant foreign literature pertaining to aquaculture. This interagency effort is an attempt to assist with the development of aquaculture in the United States. The translations were commercially done after a choice of the items to be translated was made by the Subcommittee. Persons working in this subject area with a need to have articles translated may contact Dr. Billy M. Teels, Soil Conservation Service, Rm. 6143, So. Agri. Bg., Washington, D.C. 20250 (202-427-2121) to learn the criteria for having translations made. Or, an article for translation may be submitted directly to Dr. Teels for consideration by the Joint Subcommittee.

This list represents translations done in the past two years, and supplements an earlier list distributed July/August 1979. No attempt has been made to verify the bibliographic information supplied by the translator, such as the correct journal, report, or conference title. Therefore, the original sources are often poorly identified.

These translations are available free of charge in a single copy to land-grant and cooperating institution personnel upon request. This list or a photocopy of it may be used with the desired items clearly circled; please include a return-addressed mailing label for the fastest service. USDA personnel should submit a loan request (AD-145). All requests, on request forms or letterhead, must clearly identify the TRANS. No. _____ along with the citation.

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